

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0010085031](#)  
**Status:** **Active**  
**Overview:** [kk](#)  
**Description:** 5.08mm (.200") Pitch KK@ Header, Vertical, with Polarizing Backwall, 3 Circuits, Tin (Sn) Plating

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-99020-0087 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

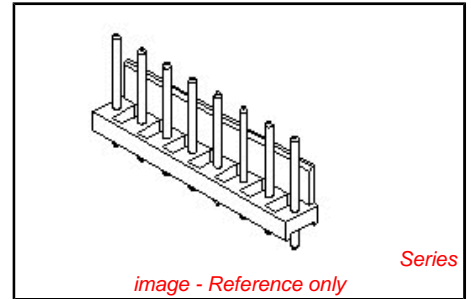
UL E29179

**General**

Product Family	PCB Headers
Series	<a href="#">2599</a>
Application	Wire-to-Board
Overview	<a href="#">kk</a>
Product Name	KK@

**Physical**

Breakaway	No
Circuits (Loaded)	3
Circuits (maximum)	3
Color - Resin	Natural
Durability (mating cycles max)	25
First Mate / Last Break	No
Flammability	94V-2
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.175 In
PC Tail Length (mm)	4.45 mm
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.200 In
Pitch - Mating Interface (mm)	5.08 mm
Plating min: Mating (µin)	200
Plating min: Mating (µm)	5
Plating min: Termination (µin)	200
Plating min: Termination (µm)	5
Polarized to PCB	No
Shrouded	Partial
Stackable	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole



**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Halogen-Free**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**China RoHS**



**Search Parts in this Series**

[2599Series](#)

**Mates With**

KK@ Crimp Housing [3001](#) , [5058](#). [3002](#) KK@ PC Board Connector

**Electrical**

Current - Maximum per Contact 7A  
Voltage - Maximum 250V

**Solder Process Data**

Lead-free Process Capability Wave Capable (TH only)

**Material Info**

Old Part Number 2599M-03A

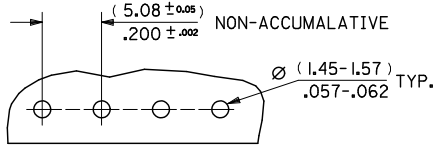
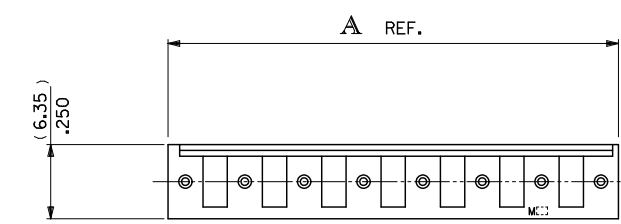
**Reference - Drawing Numbers**

Product Specification PS-99020-0087  
Sales Drawing SDAE-2599M-N\*

This document was generated on 05/24/2010

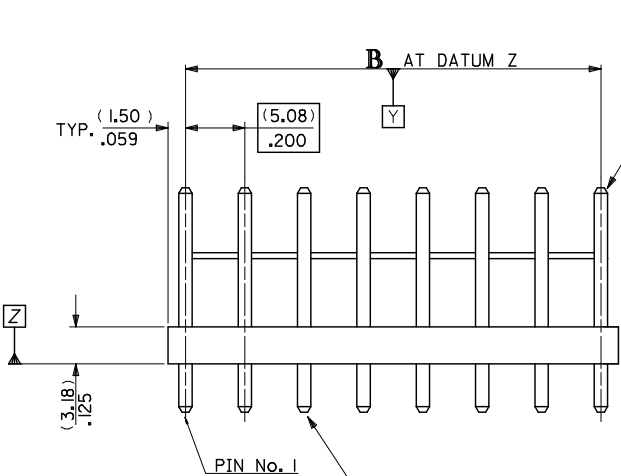
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10 9 8 7 6 5 4 3 2 1

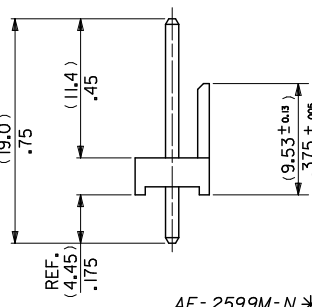


RECOMMENDED PCB HOLE DIMENSIONS

No OF CCTS.	DIMn. A	DIMn. B
2	( 8.08 ) .318	( 5.08 ± 0.13 ) .200 ± .005
3	(13.16) .518	(10.16 ± 0.13) .400 ± .005
4	(18.24) .718	(15.24 ± 0.13) .600 ± .005
5	(23.32) .918	(20.32 ± 0.13) .800 ± .005
6	(28.40) 1.118	(25.40 ± 0.15) 1.000 ± .006
7	(33.48) 1.318	(30.48 ± 0.18) 1.200 ± .007
8	(38.56) 1.518	(35.56 ± 0.18) 1.400 ± .007
9	(43.64) 1.718	(40.64 ± 0.20) 1.600 ± .008
10	(48.72) 1.918	(45.72 ± 0.20) 1.800 ± .008
11	(53.80) 2.118	(50.80 ± 0.20) 2.000 ± .008
12	(58.88) 2.318	(55.88 ± 0.23) 2.200 ± .009
13	(63.96) 2.518	(60.96 ± 0.23) 2.400 ± .009
14	(69.04) 2.718	(66.04 ± 0.25) 2.600 ± .010
15	(74.12) 2.918	(71.12 ± 0.25) 2.800 ± .010
16	(79.20) 3.118	(76.20 ± 0.25) 3.000 ± .010
17	(84.28) 3.318	(81.28 ± 0.28) 3.200 ± .011
18	(89.36) 3.518	(86.36 ± 0.28) 3.400 ± .011
19	(94.44) 3.718	(91.44 ± 0.30) 3.600 ± .012
20	(99.52) 3.918	(96.52 ± 0.30) 3.800 ± .012



TIPS ONLY  
 $\text{Ø} (0.51) \pm .020 \text{ Z X Y}$



AE-2599M-N\*\*  
 VOID CKT. LOCn.

NO. OF CKTS. VERSION  
 SEE SHEET 2

- NOTES:
1. WAFER MATERIAL: NYLON 6/6, UL94V-2
  2. TERMINAL PIN: (1.14)/0.045 DIA. BRASS
  3. FOR PLATING, SEE CHARTS.
  4. PRODUCT SPECIFICATION: PS-99020-0087
  5. PIN PUSH OUT FORCE (13.34N)/3LBS. MIN.
  6. PINS MUST CONFORM TO MOLEX SOLDERABILITY SPEC. ES-152.
  7. RECOMMENDED PCB THICKNESS 1.6MM.
  8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

PIN POSITION TOL.  
 EC NO: UCP-2010-1815  
 DRWN:MM/PPER 2010/05/26  
 CHKD:SSOUSEK 2010/05/26  
 APPR:FSMITH 2010/06/03

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm	INCH
$\nabla = 0$	4 PLACES ± ---	± ---
$\nabla = 0$	3 PLACES ± ---	± .010
	2 PLACES ± 0.25	± .014
	1 PLACE ± 0.35	± ---
	ANGULAR ± ---°	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM/IN		3:1	METRIC	
DRAWN BY	DATE	TITLE		
MC	23/02/1988	WAFER KK (5.08)/.200 CENTRES WITH POLARIZING WALL		
CHECKED BY	DATE	MOLEX INCORPORATED		
DMORIARTY		MATERIAL NO. SEE CHART		
APPROVED BY	DATE	DOCUMENT NO. SDAE-2599M-N*		
JDENNEHY	2010/05/26	SHEET NO. 1 OF 2		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

9 8 7 6 5 4 3 2 1

PART NO. SEE CHART  
DWG. NO. SDAE-2599M-N \*

10 9 8 7 6 5 4 3 2 1

No. OF CCTS.
2
3
4
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19
20
PLATING

AE-2599M-NA	
PART No.	ENG. No.
10-08-5021	AE-2599M- 2 A
↑ 5031	↑ 3 A
5041	4 A
5051	5 A
5061	6 A
5071	7 A
5081	8 A
5091	9 A
5101	10 A
5111	11 A
5121	12 A
5131	13 A
5141	14 A
5151	15 A
5161	16 A
5171	17 A
5181	18 A
↓ 5191	↓ 19 A
10-08-5201	AE-2599M- 20 A
(0.0051)/.0002 MIN TIN OVER (0.0025)/.0001 MIN COPPER	

AE-2599M-NAG	
PART No.	ENG. No.
10-45-5021	AE-2599M- 2 AG
↑ 5031	↑ 3 AG
5041	4 AG
5051	5 AG
5061	6 AG
5071	7 AG
5081	8 AG
5091	9 AG
5101	10 AG
5111	11 AG
5121	12 AG
5131	13 AG
5141	14 AG
5151	15 AG
5161	16 AG
5171	17 AG
5181	18 AG
↓ 5191	↓ 19 AG
10-45-5201	AE-2599M- 20 AG
(0.00051)/.00002 MIN GOLD OVER (0.0005)/.00005 MIN NICKEL	

AE-2599M-NA-*			
PART No.	ENG. No.	PART No.	ENG. No.
38-00-0888	AE-2599M- 3 A-1	38-00-7480	AE-2599M- 8 A-5
38-00-7089	↑ 3 A-2	38-00-7486	↑ 8 A-1,5
38-00-7586	3 A-3	38-00-7097	8 A-3,5
38-00-7091	4 A-1,3	38-00-7606	8 A-3,6
38-00-7090	4 A-2	38-00-7598	8 A-5,7
38-00-7092	4 A-3	38-00-7485	8 A-5,8
38-00-4903	4 A-2,3	38-00-8278	08 A-2
38-00-7483	5 A-2	38-00-7660	8 A-3
38-00-7610	5 A-2,4	38-00-7707	8 A-6
38-00-7093	5 A-3	38-00-8277	8 A-7
38-00-7594	5 A-4	38-00-7609	9 A-2
38-00-7487	5 A-5	38-00-7084	9 A-3
38-00-7584	6 A-2	38-00-7585	9 A-4
38-00-7094	6 A-3	38-00-7607	9 A-4,7
38-00-7095	6 A-4	38-00-7098	9 A-5
38-00-7096	6 A-5	38-00-7599	9 A-6
38-00-7100	6 A-4,5	38-00-7670	9 A-7
38-00-7479	6 A-6	38-00-7484	10 A-3
38-00-1208	7 A-2	38-00-4902	10 A-4
38-00-7608	7 A-2,5	38-00-4905	10 A-6
38-00-7481	7 A-3	38-00-7099	11 A-5
38-00-0887	7 A-4	38-00-4900	12 A-2
38-00-7595	7 A-5	38-00-7482	12 A-4
38-00-7596	7 A-6	38-00-4899	12 A-6
38-00-7664	↓ 8 A-3	38-00-4904	12 A-8
38-00-7597	AE-2599M- 8 A-4	38-00-4901	12 A-9
		38-00-7600	12 A-3,10
		38-00-7601	12 A-6,10
		38-00-7709	13 A-4
		38-00-7085	↓ 14 A-4
		38-00-7087	AE-2599M- 17 A-4
(0.0051)/.0002 MIN TIN OVER (0.0025)/.0001 MIN COPPER			

FOR PREVIOUS DRAWING ISSUES SEE MRI.

PART NO. 38-00-8278 & ENG. NO. AE-2599M- 8 A-2 ADDED  
 B2 NO. E2004-0350  
 DRWN: PSHEHAN 03/10/16  
 CHK: / / / / / / / /  
 APPR: / / / / / / / /

QUALITY SYMBOLS MAJOR CRITICAL C	GENERAL TOLERANCES: (UNLESS SPECIFIED)	SCALE	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION	DIMENSIONS: <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH <input type="checkbox"/> mm <input type="checkbox"/> ONLY	SHT	REV
	4 PLACES ±0. .	mm	INCH	MC 23/02/88	TITLE: WAFER, KK (5.08)/.200 CENTRES WITH POLARISING WALL	REVISE ON CAD ONLY	
3 PLACES ±0. .				CHECKED BY & DATE	MATERIAL NO.	DRAWING NO. SDAE-2599M-N *	SHEET NO. 20F
2 PLACES ±0. .				APPROVED BY & DATE	MOLEX INCORPORATED		SIZE B
1 PLACE ±0. .				ANGULAR: ± °	CAD FILENAME SA2599MK2 DGN		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		

7132-1283 10 9 8 7 6 5 4 3 2 1